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OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/942,935

DATE: 12/13/2001

TIME: 13:47:30

Input Set : A:\032301.216.seq.ST25.txt
Output Set: N:\CRF3\12132001\I942935.raw

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3 <110> APPLICANT: Degussa AG
 5 <120> TITLE OF INVENTION: Nucleotide Sequences Coding for the sigM Gene
 7 <130> FILE REFERENCE: 000449 BT
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/942,935
 C--> 9 <141> CURRENT FILING DATE: 2001-12-13
 9 <160> NUMBER OF SEQ ID NOS: 4
 11 <170> SOFTWARE: PatentIn version 3.1
 13 <210> SEQ ID NO: 1
 14 <211> LENGTH: 1211
 15 <212> TYPE: DNA
 16 <213> ORGANISM: Corynebacterium glutamicum
 18 <220> FEATURE:
 19 <221> NAME/KEY: CDS
 20 <222> LOCATION: (236)..(907)
 21 <223> OTHER INFORMATION:
 24 <400> SEQUENCE: 1

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27	ttgtgattga ccccccattaa ggtgcggcccg ccctcaagttt cactaactga aggccggcgt	120
29	ttttaattta tatatagttt cagctcacag gtattttcca gaaagaagag ccctcaaagt	180
31	atgttagcacc tcagcgacac ctccccacttg agtgggcgcc gagaagtatc tctca atg	238
32		Met
33		1
35	gaa aat ctg ccc ata cta agc cgc ata agg gat acg ggg tgt gtc cct	286
36	Glu Asn Leu Pro Ile Leu Ser Arg Ile Arg Asp Thr Gly Cys Val Pro	
37	5 10 15	
39	caa cct gcg ggg gat ctt atg aca gta ctg cct aaa aac cat gac cta	334
40	Gln Pro Ala Gly Asp Leu Met Thr Val Leu Pro Lys Asn His Asp Leu	
41	20 25 30	
43	agc gat acc caa ctc gtc aaa cag ttt ata tct ggc gac tcc agg gca	382
44	Ser Asp Thr Gln Leu Val Lys Gln Phe Ile Ser Gly Asp Ser Arg Ala	
45	35 40 45	
47	ttt tcc acc atc att cac cgc cac gaa cga cat atg atg cag gca gcc	430
48	Phe Ser Thr Ile Ile His Arg His Glu Arg His Met Met Gln Ala Ala	
49	50 55 60 65	
51	aga aaa tac ggg cgaa cca gaa gac gcc caa gac att ctc caa gaa	478
52	Arg Lys Tyr Gly Arg Lys Pro Glu Asp Ala Gln Asp Ile Leu Gln Glu	
53	70 75 80	
55	gct ctc ttt cgc gcc agc cga aac atg cac ctt tat aga gca gaa gca	526
56	Ala Leu Phe Arg Ala Ser Arg Asn Met His Leu Tyr Arg Ala Glu Ala	
57	85 90 95	
59	gct ctc ggc acg tgg ctc cac aaa ctt gtc ctg aat agc ggc ttc gat	574
60	Ala Leu Gly Thr Trp Leu His Lys Leu Val Leu Asn Ser Gly Phe Asp	
61	100 105 110	
63	tgg gct acc cac cgc tcc caa gta gaa ttc ccc atc ctt aac gaa cca	622
64	Trp Ala Thr His Arg Ser Gln Val Glu Phe Pro Ile Leu Asn Glu Pro	
65	115 120 125	
67	aca atc gat tta gaa aaa gat cct cgc cta gcc acc gac ccc ttg ggc	670

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68	Thr	Ile	Asp	Leu	Glu	Asp	Pro	Arg	Leu	Ala	Thr	Asp	Pro	Leu	Gly		
69	130			135				140						145			
71	tac	ctc	gat	gtc	gcc	atg	aca	att	cga	tcc	gcc	atc	gac	caa	tta	cac	718
72	Tyr	Leu	Asp	Val	Ala	Met	Thr	Ile	Arg	Ser	Ala	Ile	Asp	Gln	Leu	His	
73				150				155						160			
75	ccc	gat	caa	cgc	atc	gcc	tta	ata	ctt	gtc	gac	ctc	ggc	ggc	tac	acc	766
76	Pro	Asp	Gln	Arg	Ile	Ala	Leu	Ile	Leu	Val	Asp	Leu	Gly	Gly	Tyr	Thr	
77				165				170					175				
79	gta	gaa	gat	gtg	gcc	gaa	atc	gaa	gga	atc	aaa	gta	ggt	acc	gtt	aaa	814
80	Val	Glu	Asp	Val	Ala	Glu	Ile	Glu	Gly	Ile	Lys	Val	Gly	Thr	Val	Lys	
81		180				185					190						
83	tca	cgc	cga	ggg	cgc	gca	cgc	aaa	gcg	ttg	cgc	gcc	ctt	tta	cat	gca	862
84	Ser	Arg	Arg	Gly	Arg	Ala	Arg	Lys	Ala	Leu	Arg	Ala	Leu	Leu	His	Ala	
85		195				200					205						
87	gat	ttc	ttc	ggg	ccc	gaa	gat	ggc	tcc	ata	cag	tgc	gaa	agc	aac		907
88	Asp	Phe	Phe	Gly	Pro	Glu	Asp	Gly	Ser	Ile	Gln	Cys	Glu	Ser	Asn		
89		210				215					220						
91	tgttcaaagt	ttttcaaagt	gtctgacgtt	aaaaacgggt	atgttcaac	acac	tagggtaat										967
93	gggtcacgt	atgtctgact	tttacgttta	ctactttgag	ggaaacaat	g	tctgaagaac										1027
95	aatctgccgt	agcacccaaag	attcatgat	tcgccatcat	cggctccgt	ccagctggct											1087
97	ataccgcagc	agtatatgca	gcccgcgct	acctcaaccc	catcatgttc	gagggtat											1147
99	aatacggtgg	atctttgat	accactact	acgtggaaaa	cttcccaggc	tttgaaaagg											1207
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105	<211>	LENGTH:	224														
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112	1				5				10					15			
115	Pro	Gln	Pro	Ala	Gly	Asp	Leu	Met	Thr	Val	Leu	Pro	Lys	Asn	His	Asp	
116					20				25				30				
119	Leu	Ser	Asp	Thr	Gln	Leu	Val	Lys	Gln	Phe	Ile	Ser	Gly	Asp	Ser	Arg	
120					35				40				45				
123	Ala	Phe	Ser	Thr	Ile	Ile	His	Arg	His	Glu	Arg	His	Met	Met	Gln	Ala	
124					50				55				60				
127	Ala	Arg	Lys	Tyr	Gly	Arg	Lys	Pro	Glu	Asp	Ala	Gln	Asp	Ile	Leu	Gln	
128		65				70				75				80			
131	Glu	Ala	Leu	Phe	Arg	Ala	Ser	Arg	Asn	Met	His	Leu	Tyr	Arg	Ala	Glu	
132					85				90				95				
135	Ala	Ala	Leu	Gly	Thr	Trp	Leu	His	Lys	Leu	Val	Leu	Asn	Ser	Gly	Phe	
136					100				105				110				
139	Asp	Trp	Ala	Thr	His	Arg	Ser	Gln	Val	Glu	Phe	Pro	Ile	Leu	Asn	Glu	
140					115				120				125				
143	Pro	Thr	Ile	Asp	Leu	Glu	Lys	Asp	Pro	Arg	Leu	Ala	Thr	Asp	Pro	Leu	
144			130			135				140							
147	Gly	Tyr	Leu	Asp	Val	Ala	Met	Thr	Ile	Arg	Ser	Ala	Ile	Asp	Gln	Leu	
148		145				150				155			160				
151	His	Pro	Asp	Gln	Arg	Ile	Ala	Leu	Ile	Leu	Val	Asp	Leu	Gly	Tyr		

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152 165 170 175
155 Thr Val Glu Asp Val Ala Glu Ile Glu Gly Ile Lys Val Gly Thr Val
156 180 185 190
159 Lys Ser Arg Arg Gly Arg Ala Arg Lys Ala Leu Arg Ala Leu Leu His
160 195 200 205
163 Ala Asp Phe Phe Gly Pro Glu Asp Gly Ser Ile Gln Cys Glu Ser Asn
164 210 215 220
167 <210> SEQ ID NO: 3
168 <211> LENGTH: 28
169 <212> TYPE: DNA
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177 <211> LENGTH: 28
178 <212> TYPE: DNA
179 <213> ORGANISM: Corynebacterium glutamicum
181 <400> SEQUENCE: 4
182 tgtctagaaa gcatgcggag gaatcaac 28

VERIFICATION SUMMARY

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L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date